

**Water Sources:** Lake Michie; perennial streams near Spruce-pine Lodge and Holly Grove picnic area  
**Amphibian Breeding Sites:** No salamander pools were observed, but American toads were heard chorusing in a large backwater located at the upper end of the lake  
**Denning Sites:** Rock outcrops, particularly below the dam  
**Big Trees/Large Cavities:** Abundant in mature hardwoods at upper end of the lake; several oaks seen that were >2' dbh  
**Snags and Logs:** Abundant in mature hardwood stands  
**Mast-producing Species:** Oaks, hickories, beech are all common at upper end of the lake  
**Nectar Sources:** None recorded

**Landscape Features:**

**Refuge Shape:** Narrow strips along the lake margin, widening in the vicinity of the dam  
**Refuge Integrity/Fragmentation:** SR 1616 crosses the middle of the lake; bridge does not provide much passageway for terrestrial species; SR 1622 separates this tract from the Butner Gamelands located to the east  
**Proximity to Other Refuges/Existence of Corridors:** Contiguous with Hill Forest upstream and Butner/Falls of the Neuse Gamelands to the east and south

**Threats and Disturbances:**

**Evidence of Past Land Uses:** Young pine stands; eroded slopes  
**Level of Human Intrusion:** Medium—nature trails are present in some areas  
**Distance to Nearest Road:** Crossed by SR 1616 and bounded on the east by 1622  
**Potential for Habitat Loss or Fragmentation:** Low—no new facilities are being planned  
**Potential for Changes in Adjoining Land Use:** Medium—privately owned lands adjacent to the city property are being developed

**Species Records:**

*Sciurus carolinensis* (95-03-16/o)  
*Meleagris gallopavo* (95-03-16/s)  
*Melanerpes carolinus* (95-03-16/o)  
*Picoides pubescens* (95-03-16/o)  
*Dryocopus pileatus* (95-03-16/o)  
*Cervus brachyrhynchus* (95-03-16/e)

*Parus bicolor* (95-03-16/o)  
*Thryothorus ludovicianus* (95-03-16/o)  
*Dendroica pinus* (95-03-16/o)  
*Crotalus horridus* (DUKE, NCMU)  
*Plethodon cinereus* (95-03-16/o)  
*Bufo americanus* (95-03-16/e)

*Pseudacris triseriata* (95-03-16/o)  
*Pseudacris crucifer* (95-03-16/o)  
*Anthocharis midea* (95-03-16/o)  
*Celastrina ladon* (95-03-16/o)

**Additional Survey Needs:**

Only one visit was made to this site, in late winter; more intensive survey of all animal groups is needed; status of rattlesnakes in gorge below the dam needs to be checked (last observed in the 1980's?)